

Tier Two Emergency and Hazardous Chemical Inventory
Reporting Period: January 1 to December 31, 2020

Page 1
Generated On: March 31, 2021

Facility Name: LYONDELLBASELL SYNGAS

FACILITY IDENTIFICATION:

REDACTED VERSION

LYONDELLBASELL SYNGAS

Dept:

Physical Address: 11603B STRANG RD, LA PORTE, TX 77571-9749

Mailing Address: 11603B STRANG RD, LA PORTE, TX 77571-9749

Geographic Location:

County: HARRIS

Latitude: 29.71

Longitude: -95.071388

Fire Department: City of La Porte Fire Department

LEPC: La Porte LEPC

[x] All facility information (not including chemical information) is identical to last year's submission

IDENTIFICATION NUMBERS:

Dun & Bradstreet: (b) (4)

NAICS: 325120 (Industrial Gas Manufacturing)

RMP: 100000088861 (RMP Facility ID)

Is the facility manned? [x] Manned [] Unmanned

Maximum No. of Occupants: 100

REGULATORY INFORMATION:

Subject to Emergency Planning under Section 302 of EPCRA (40 CFR part 355)?

[x] Yes [] No

Subject to Chem. Accident Prevention under Section 112(r) of CAA (40 CFR part 68, Risk Mgmt. Pgm.)?

[x] Yes [] No

CONTACT INFORMATION:

Hardcastle Lance

Title: HSE SPECIALIST

Contact Type(s): EMERGENCY CONTACT, FAC. EMERGENCY COORDINATOR

Address: 1515 MILLER CUT OFF RD, LA PORTE, TX, 77571

Phones: 24-HOUR: 713-209-1280 WORK PHONE: 713-209-1219

Email: Eric.Hardcastle@lyondellbasell.com

Stephen Goff

Organization: LYONDELLBASELL ACETYLs LLC

Title: PLANT MANAGER

Contact Type(s): OWNER / OPERATOR

Address: 1515 MILLER CUT OFF RD, LA PORTE, TX, 77571

Phones: WORK PHONE: 713-336-5475

Email: Stephen.Goff@lyondellbasell.com

Heath McCartney

Title: HSE MANAGER

Contact Type(s): EMERGENCY CONTACT

Address: 1515 MILLER CUT OFF RD, LA PORTE, TX, 77571

Phones: 24-HOUR: 713-209-1280 WORK PHONE: 713-336-5281

Email: James.McCartney@lyondellbasell.com

Samantha Solis

Title: INDUSTRIAL HYGIENIST

Contact Type(s): TIER II INFORMATION CONTACT, BILLING CONTACT

Facility Name: LYONDELLBASELL SYNGAS

Address: 1515 MILLER CUT OFF RD, LA PORTE, TX, 77571

Phones: 24-HOUR: 713-209-1280 CELL PHONE: 832-584-8656 WORK PHONE: 713-209-7003

Email: Samantha.Solis@lyondellbasell.com

CHEMICAL DESCRIPTIONS:

CHEMICAL NAME: Aqueous Phosphate Solution (3D TRASAR 177)

CAS #: 7601-54-9 EHS:

☒ Identical to previous year

☐ Trade Secret

☐ Pure ☒ Mixture ☐ Solid ☒ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

- ☐ Combustible dust
- ☐ Explosive
- ☐ Gas under pressure
- ☐ Organic peroxide
- ☐ Pyrophoric gas
- ☐ Self-heating

- ☐ Corrosive to metal
- ☐ Flammable
- ☐ In contact with water emits flammable gas
- ☐ Oxidizer
- ☐ Pyrophoric
- ☐ Self-reactive

HEALTH HAZARDS:

- ☐ Acute toxicity (any route of exposure)
- ☐ Carcinogenicity
- ☐ Reproductive toxicity
- ☒ Serious eye damage or eye irritation
- ☒ Skin corrosion or irritation

- ☐ Aspiration hazard
- ☐ Germ cell mutagenicity
- ☐ Respiratory or skin sensitization
- ☐ Simple Asphyxiant
- ☐ Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds

Max Daily Amt code: 08 (50,000 - 74,999 pounds)

Avg Daily Amt code: 07 (25,000 - 49,999 pounds)

Avg Max Amt quantity in largest container: 55000 pounds

No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential

Container Type: Above ground tank

Pressure: Ambient pressure Temp: Ambient temperature

Location: Syngas Unit

Amount: 60000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: SILICON DIOXIDE

CAS #: 7631-86-9 EHS: NO

☒ Identical to previous year

☐ Trade Secret

☒ Pure ☐ Mixture ☒ Solid ☐ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

- ☐ Combustible dust
- ☐ Explosive
- ☐ Gas under pressure

- ☐ Corrosive to metal
- ☐ Flammable
- ☐ In contact with water emits flammable gas

Facility Name: LYONDELLBASELL SYNGAS

☐ Organic peroxide
☐ Pyrophoric gas
☐ Self-heating

☐ Oxidizer
☐ Pyrophoric
☐ Self-reactive

HEALTH HAZARDS:

☒ Acute toxicity (any route of exposure)
☐ Carcinogenicity
☐ Reproductive toxicity
☒ Serious eye damage or eye irritation
☐ Skin corrosion or irritation

☐ Aspiration hazard
☐ Germ cell mutagenicity
☒ Respiratory or skin sensitization
☐ Simple Asphyxiant
☐ Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 06 (10,000 - 24,999 pounds)
Avg Daily Amt code: 06 (10,000 - 24,999 pounds)
Avg Max Amt quantity in largest container: 6500 pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Above ground tank
Pressure: Greater than ambient pressure Temp: Ambient temperature
Location: Syngas Unit (Molsieve)
Amount: 18000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: Activated Carbon

CAS #: 7440-44-0 EHS:

☒ Identical to previous year
☐ Trade Secret
☒ Pure ☐ Mixture ☒ Solid ☐ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

☐ Combustible dust
☐ Explosive
☐ Gas under pressure
☐ Organic peroxide
☐ Pyrophoric gas
☐ Self-heating

☐ Corrosive to metal
☐ Flammable
☐ In contact with water emits flammable gas
☐ Oxidizer
☐ Pyrophoric
☐ Self-reactive

HEALTH HAZARDS:

☐ Acute toxicity (any route of exposure)
☐ Carcinogenicity
☐ Reproductive toxicity
☒ Serious eye damage or eye irritation
☒ Skin corrosion or irritation

☐ Aspiration hazard
☐ Germ cell mutagenicity
☐ Respiratory or skin sensitization
☐ Simple Asphyxiant
☐ Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 10 (100,000 - 499,999 pounds)
Avg Daily Amt code: 10 (100,000 - 499,999 pounds)
Avg Max Amt quantity in largest container: 15000 pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential

Facility Name: LYONDELLBASELL SYNGAS

Container Type: Above ground tank
Pressure: Greater than ambient pressure Temp: Greater than ambient temperature
Location: Syngas Unit (AOG Carbon Bed)
Amount: 15000 pounds

☐ Confidential

Container Type: Above ground tank
Pressure: Greater than ambient pressure Temp: Ambient temperature
Location: Syngas Unit (PSA Adsorption Beds [6])
Amount: 90000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: BASF Catalyst RO-20/25 (AOG DeOxygenation catalyst)
CAS #: 1344-28-1 EHS:

☒ Identical to previous year
☐ Trade Secret
☐ Pure ☒ Mixture ☒ Solid ☐ Liquid ☐ Gas

CHEMICAL COMPONENTS:

☐ EHS, CAS: 7440-05-3, Component: PALLADIUM ON CARBON, 0% Wt, Max Amt Code:
☐ EHS, CAS: 7732-18-5, Component: WATER, 2% Wt, Max Amt Code:
☐ EHS, CAS: 1344-28-1, Component: ALUMINUM OXIDE, 98% Wt, Max Amt Code:

PHYSICAL HAZARDS:

<input type="checkbox"/> Combustible dust	<input type="checkbox"/> Corrosive to metal
<input type="checkbox"/> Explosive	<input type="checkbox"/> Flammable
<input type="checkbox"/> Gas under pressure	<input type="checkbox"/> In contact with water emits flammable gas
<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Pyrophoric
<input type="checkbox"/> Self-heating	<input type="checkbox"/> Self-reactive

HEALTH HAZARDS:

<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)	<input type="checkbox"/> Aspiration hazard
<input type="checkbox"/> Carcinogenicity	<input type="checkbox"/> Germ cell mutagenicity
<input type="checkbox"/> Reproductive toxicity	<input type="checkbox"/> Respiratory or skin sensitization
<input type="checkbox"/> Serious eye damage or eye irritation	<input type="checkbox"/> Simple Asphyxiant
<input type="checkbox"/> Skin corrosion or irritation	<input type="checkbox"/> Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 06 (10,000 - 24,999 pounds)
Avg Daily Amt code: 06 (10,000 - 24,999 pounds)
Avg Max Amt quantity in largest container: N/A pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Other
Pressure: Greater than ambient pressure Temp: Greater than ambient temperature
Location: Syngas Unit (AOG Process Unit)
Amount: 11400 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: ALUMINUM OXIDE

Facility Name: LYONDELLBASELL SYNGAS

CAS #: 1344-28-1 EHS: NO

☒ Identical to previous year

☐ Trade Secret

☒ Pure ☐ Mixture ☒ Solid ☐ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

- | | |
|---|--|
| <input type="checkbox"/> Combustible dust | <input type="checkbox"/> Corrosive to metal |
| <input type="checkbox"/> Explosive | <input type="checkbox"/> Flammable |
| <input type="checkbox"/> Gas under pressure | <input type="checkbox"/> In contact with water emits flammable gas |
| <input type="checkbox"/> Organic peroxide | <input type="checkbox"/> Oxidizer |
| <input type="checkbox"/> Pyrophoric gas | <input type="checkbox"/> Pyrophoric |
| <input type="checkbox"/> Self-heating | <input type="checkbox"/> Self-reactive |

HEALTH HAZARDS:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Acute toxicity (any route of exposure) | <input type="checkbox"/> Aspiration hazard |
| <input type="checkbox"/> Carcinogenicity | <input type="checkbox"/> Germ cell mutagenicity |
| <input type="checkbox"/> Reproductive toxicity | <input checked="" type="checkbox"/> Respiratory or skin sensitization |
| <input type="checkbox"/> Serious eye damage or eye irritation | <input type="checkbox"/> Simple Asphyxiant |
| <input type="checkbox"/> Skin corrosion or irritation | <input type="checkbox"/> Specific target organ toxicity(single or |

INVENTORY:

☐ Below Reporting Thresholds

Max Daily Amt code: 07 (25,000 - 49,999 pounds)

Avg Daily Amt code: 07 (25,000 - 49,999 pounds)

Avg Max Amt quantity in largest container: 4000 pounds

No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential

Container Type: Above ground tank

Pressure: Ambient pressure Temp: Greater than ambient temperature

Location: Syngas Unit (PSA Beds [6])

Amount: 9000 pounds

☐ Confidential

Container Type: Above ground tank

Pressure: Greater than ambient pressure Temp: Ambient temperature

Location: Molsieve (2 beds, 1000 lbs each)

Amount: 2000 pounds

☐ Confidential

Container Type: Other

Pressure: Greater than ambient pressure Temp: Less than ambient temperature (not cryogenic)

Location: Syngas Unit (CO)

Amount: 12000 pounds

☐ Confidential

Container Type: Other

Pressure: Greater than ambient pressure Temp: Greater than ambient temperature

Location: Syngas Unit (CO Unit)

Amount: 12000 pounds

☐ Confidential

Container Type: Bag

Pressure: Ambient pressure Temp: Ambient temperature

Facility Name: LYONDELLBASELL SYNGAS

Location: Water and Waste Treatment
Amount: 2500 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: PERLITE
CAS #: 93763-70-3 EHS:

☒ Identical to previous year
☐ Trade Secret
☒ Pure ☐ Mixture ☒ Solid ☐ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

<input type="checkbox"/> Combustible dust	<input type="checkbox"/> Corrosive to metal
<input type="checkbox"/> Explosive	<input type="checkbox"/> Flammable
<input type="checkbox"/> Gas under pressure	<input type="checkbox"/> In contact with water emits flammable gas
<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Pyrophoric
<input type="checkbox"/> Self-heating	<input type="checkbox"/> Self-reactive

HEALTH HAZARDS:

<input checked="" type="checkbox"/> Acute toxicity (any route of exposure)	<input type="checkbox"/> Aspiration hazard
<input type="checkbox"/> Carcinogenicity	<input type="checkbox"/> Germ cell mutagenicity
<input type="checkbox"/> Reproductive toxicity	<input checked="" type="checkbox"/> Respiratory or skin sensitization
<input checked="" type="checkbox"/> Serious eye damage or eye irritation	<input type="checkbox"/> Simple Asphyxiant
<input type="checkbox"/> Skin corrosion or irritation	<input type="checkbox"/> Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 07 (25,000 - 49,999 pounds)
Avg Daily Amt code: 07 (25,000 - 49,999 pounds)
Avg Max Amt quantity in largest container: 25000 pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Above ground tank
Pressure: Ambient pressure Temp: Ambient temperature
Location: Syngas Unit (Cold Box)
Amount: 25000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: HYDROGEN SULFATE
CAS #: 7664-93-9 EHS: YES

☒ Identical to previous year
☐ Trade Secret
☒ Pure ☐ Mixture ☐ Solid ☒ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

<input type="checkbox"/> Combustible dust	<input type="checkbox"/> Corrosive to metal
<input type="checkbox"/> Explosive	<input type="checkbox"/> Flammable

Facility Name: LYONDELLBASELL SYNGAS

☐ Gas under pressure
☐ Organic peroxide
☐ Pyrophoric gas
☐ Self-heating

☐ In contact with water emits flammable gas
☐ Oxidizer
☐ Pyrophoric
☐ Self-reactive

HEALTH HAZARDS:

☐ Acute toxicity (any route of exposure)
☐ Carcinogenicity
☐ Reproductive toxicity
☒ Serious eye damage or eye irritation
☒ Skin corrosion or irritation

☐ Aspiration hazard
☐ Germ cell mutagenicity
☐ Respiratory or skin sensitization
☐ Simple Asphyxiant
☐ Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 10 (100,000 - 499,999 pounds)
Avg Daily Amt code: 08 (50,000 - 74,999 pounds)
Avg Max Amt quantity in largest container: 120400 pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Tote bin
Pressure: Ambient pressure Temp: Ambient temperature
Location: Water and Waste Treatment (Cooling Tower)
Amount: 5000 pounds

☐ Confidential
Container Type: Above ground tank
Pressure: Ambient pressure Temp: Ambient temperature
Location: Water and Waste Treatment
Amount: 100000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: Linde Adsorbent LMS

CAS #: EHS:

☒ Identical to previous year
☐ Trade Secret
☐ Pure ☒ Mixture ☒ Solid ☐ Liquid ☐ Gas

CHEMICAL COMPONENTS:

☐ EHS, CAS: 999999-99-4, Component: MINERAL BINDER, % Wt, Max Amt Code:
☐ EHS, CAS: 14808, Component: QUARTZ, % Wt, Max Amt Code:
☐ EHS, CAS: 1318-02-1, Component: ZEOLITES, % Wt, Max Amt Code:

PHYSICAL HAZARDS:

☐ Combustible dust
☐ Explosive
☐ Gas under pressure
☐ Organic peroxide
☐ Pyrophoric gas
☐ Self-heating

☐ Corrosive to metal
☐ Flammable
☐ In contact with water emits flammable gas
☐ Oxidizer
☐ Pyrophoric
☐ Self-reactive

HEALTH HAZARDS:

☐ Acute toxicity (any route of exposure)
☐ Carcinogenicity
☐ Reproductive toxicity
☐ Serious eye damage or eye irritation
☒ Skin corrosion or irritation

☐ Aspiration hazard
☐ Germ cell mutagenicity
☒ Respiratory or skin sensitization
☐ Simple Asphyxiant
☐ Specific target organ toxicity(single or

Facility Name: LYONDELLBASELL SYNGAS

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 08 (50,000 - 74,999 pounds)
Avg Daily Amt code: 08 (50,000 - 74,999 pounds)
Avg Max Amt quantity in largest container: 11000 pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Above ground tank
Pressure: Greater than ambient pressure Temp: Ambient temperature
Location: Syngas Unit (PSA Adsorption Beds)
Amount: 70000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: ZINC OXIDE

CAS #: 1314-13-2 EHS: NO

☒ Identical to previous year
☐ Trade Secret
☐ Pure ☒ Mixture ☒ Solid ☐ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

<input type="checkbox"/> Combustible dust	<input type="checkbox"/> Corrosive to metal
<input type="checkbox"/> Explosive	<input type="checkbox"/> Flammable
<input type="checkbox"/> Gas under pressure	<input type="checkbox"/> In contact with water emits flammable gas
<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Pyrophoric
<input type="checkbox"/> Self-heating	<input type="checkbox"/> Self-reactive

HEALTH HAZARDS:

<input type="checkbox"/> Acute toxicity (any route of exposure)	<input type="checkbox"/> Aspiration hazard
<input type="checkbox"/> Carcinogenicity	<input type="checkbox"/> Germ cell mutagenicity
<input type="checkbox"/> Reproductive toxicity	<input type="checkbox"/> Respiratory or skin sensitization
<input checked="" type="checkbox"/> Serious eye damage or eye irritation	<input type="checkbox"/> Simple Asphyxiant
<input checked="" type="checkbox"/> Skin corrosion or irritation	<input type="checkbox"/> Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 09 (75,000 - 99,999 pounds)
Avg Daily Amt code: 09 (75,000 - 99,999 pounds)
Avg Max Amt quantity in largest container: N/A pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Other
Pressure: Greater than ambient pressure Temp: Greater than ambient temperature
Location: Syngas Unit
Amount: N/A pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

Facility Name: LYONDELLBASELL SYNGAS

CHEMICAL NAME: Methane (natural gas)

CAS #: 74-32-8 EHS:

☒ Identical to previous year

☐ Trade Secret

☒ Pure ☐ Mixture ☐ Solid ☐ Liquid ☒ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

- | | |
|---|--|
| <input type="checkbox"/> Combustible dust | <input type="checkbox"/> Corrosive to metal |
| <input checked="" type="checkbox"/> Explosive | <input checked="" type="checkbox"/> Flammable |
| <input type="checkbox"/> Gas under pressure | <input type="checkbox"/> In contact with water emits flammable gas |
| <input type="checkbox"/> Organic peroxide | <input type="checkbox"/> Oxidizer |
| <input type="checkbox"/> Pyrophoric gas | <input type="checkbox"/> Pyrophoric |
| <input type="checkbox"/> Self-heating | <input type="checkbox"/> Self-reactive |

HEALTH HAZARDS:

- | | |
|---|---|
| <input type="checkbox"/> Acute toxicity (any route of exposure) | <input type="checkbox"/> Aspiration hazard |
| <input type="checkbox"/> Carcinogenicity | <input type="checkbox"/> Germ cell mutagenicity |
| <input type="checkbox"/> Reproductive toxicity | <input type="checkbox"/> Respiratory or skin sensitization |
| <input type="checkbox"/> Serious eye damage or eye irritation | <input checked="" type="checkbox"/> Simple Asphyxiant |
| <input type="checkbox"/> Skin corrosion or irritation | <input type="checkbox"/> Specific target organ toxicity(single or |

INVENTORY:

☐ Below Reporting Thresholds

Max Daily Amt code: 09 (75,000 - 99,999 pounds)

Avg Daily Amt code: 09 (75,000 - 99,999 pounds)

Avg Max Amt quantity in largest container: N/A pounds

No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential

Container Type: Other

Pressure: Greater than ambient pressure Temp: Ambient temperature

Location: Syngas Unit (POx Unit)

Amount: N/A pounds

☐ Confidential

Container Type: Other

Pressure: Greater than ambient pressure Temp: Ambient temperature

Location: Syngas Unit (Superheater and Boiler)

Amount: N/A pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: Copper oxide/zinc oxide catalyst (gas purification catalyst)

CAS #: 1317-38-0 EHS:

☒ Identical to previous year

☐ Trade Secret

☐ Pure ☒ Mixture ☒ Solid ☐ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

- | | |
|---|---|
| <input type="checkbox"/> Combustible dust | <input type="checkbox"/> Corrosive to metal |
| <input type="checkbox"/> Explosive | <input type="checkbox"/> Flammable |

Facility Name: LYONDELLBASELL SYNGAS

- ☐ Gas under pressure
- ☐ Organic peroxide
- ☐ Pyrophoric gas
- ☐ Self-heating

- ☐ In contact with water emits flammable gas
- ☐ Oxidizer
- ☐ Pyrophoric
- ☐ Self-reactive

HEALTH HAZARDS:

- ☐ Acute toxicity (any route of exposure)
- ☐ Carcinogenicity
- ☐ Reproductive toxicity
- ☒ Serious eye damage or eye irritation
- ☐ Skin corrosion or irritation

- ☐ Aspiration hazard
- ☐ Germ cell mutagenicity
- ☒ Respiratory or skin sensitization
- ☐ Simple Asphyxiant
- ☐ Specific target organ toxicity(single or

INVENTORY:

- ☐ Below Reporting Thresholds
- Max Daily Amt code: 10 (100,000 - 499,999 pounds)
- Avg Daily Amt code: 10 (100,000 - 499,999 pounds)
- Avg Max Amt quantity in largest container: N/A pounds
- No. days on-site: 365

STORAGE LOCATIONS

- ☐ Confidential
- Container Type: Other
- Pressure: Greater than ambient pressure Temp: Greater than ambient temperature
- Location: Syngas Unit (AOG Process Unit, 2 beds at 10,500 lbs each
- Amount: 21000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: Ferrous Sulfate Solution

CAS #: 7720-78-7 EHS:

- ☒ Identical to previous year
- ☐ Trade Secret
- ☐ Pure ☒ Mixture ☐ Solid ☒ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

- ☐ Combustible dust
- ☐ Explosive
- ☐ Gas under pressure
- ☐ Organic peroxide
- ☐ Pyrophoric gas
- ☐ Self-heating

- ☐ Corrosive to metal
- ☐ Flammable
- ☐ In contact with water emits flammable gas
- ☐ Oxidizer
- ☐ Pyrophoric
- ☐ Self-reactive

HEALTH HAZARDS:

- ☐ Acute toxicity (any route of exposure)
- ☐ Carcinogenicity
- ☐ Reproductive toxicity
- ☒ Serious eye damage or eye irritation
- ☒ Skin corrosion or irritation

- ☐ Aspiration hazard
- ☐ Germ cell mutagenicity
- ☐ Respiratory or skin sensitization
- ☐ Simple Asphyxiant
- ☐ Specific target organ toxicity(single or

INVENTORY:

- ☐ Below Reporting Thresholds
- Max Daily Amt code: 11 (500,000 - 999,999 pounds)
- Avg Daily Amt code: 08 (50,000 - 74,999 pounds)
- Avg Max Amt quantity in largest container: 116000 pounds
- No. days on-site: 365

STORAGE LOCATIONS

Facility Name: LYONDELLBASELL SYNGAS

☐ Confidential

Container Type: Above ground tank

Pressure: Ambient pressure Temp: Ambient temperature

Location: Water and Waste Treatment

Amount: 120000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: CARBON MONOXIDE

CAS #: 630-08-0 EHS: NO

☒ Identical to previous year

☐ Trade Secret

☒ Pure ☐ Mixture ☐ Solid ☒ Liquid ☒ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

☐ Combustible dust
☒ Explosive
☐ Gas under pressure
☐ Organic peroxide
☐ Pyrophoric gas
☐ Self-heating

☐ Corrosive to metal
☒ Flammable
☐ In contact with water emits flammable gas
☐ Oxidizer
☐ Pyrophoric
☐ Self-reactive

HEALTH HAZARDS:

☒ Acute toxicity (any route of exposure)
☐ Carcinogenicity
☒ Reproductive toxicity
☐ Serious eye damage or eye irritation
☐ Skin corrosion or irritation

☐ Aspiration hazard
☐ Germ cell mutagenicity
☐ Respiratory or skin sensitization
☒ Simple Asphyxiant
☒ Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds

Max Daily Amt code: 06 (10,000 - 24,999 pounds)

Avg Daily Amt code: 06 (10,000 - 24,999 pounds)

Avg Max Amt quantity in largest container: 10000 pounds

No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential

Container Type: Other

Pressure: Greater than ambient pressure Temp: Greater than ambient temperature

Location: Syngas Unit (POx Unit)

Amount: 4500 pounds

☐ Confidential

Container Type: Other

Pressure: Greater than ambient pressure Temp: Less than ambient temperature (not cryogenic)

Location: Syngas Unit (Rectisol and CO)

Amount: 10000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: CARBON DIOXIDE

CAS #: 124-38-9 EHS: NO

Facility Name: LYONDELLBASELL SYNGAS

☒ Identical to previous year
☐ Trade Secret
☒ Pure ☐ Mixture ☐ Solid ☐ Liquid ☒ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

<input type="checkbox"/> Combustible dust	<input type="checkbox"/> Corrosive to metal
<input checked="" type="checkbox"/> Explosive	<input type="checkbox"/> Flammable
<input type="checkbox"/> Gas under pressure	<input type="checkbox"/> In contact with water emits flammable gas
<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Pyrophoric
<input type="checkbox"/> Self-heating	<input type="checkbox"/> Self-reactive

HEALTH HAZARDS:

<input type="checkbox"/> Acute toxicity (any route of exposure)	<input type="checkbox"/> Aspiration hazard
<input type="checkbox"/> Carcinogenicity	<input type="checkbox"/> Germ cell mutagenicity
<input type="checkbox"/> Reproductive toxicity	<input checked="" type="checkbox"/> Respiratory or skin sensitization
<input type="checkbox"/> Serious eye damage or eye irritation	<input checked="" type="checkbox"/> Simple Asphyxiant
<input checked="" type="checkbox"/> Skin corrosion or irritation	<input type="checkbox"/> Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 06 (10,000 - 24,999 pounds)
Avg Daily Amt code: 06 (10,000 - 24,999 pounds)
Avg Max Amt quantity in largest container: N/A pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Above ground tank
Pressure: Greater than ambient pressure Temp: Greater than ambient temperature
Location: Syngas Unit (Rectisol Area)
Amount: 20000 pounds

☐ Confidential
Container Type: Above ground tank
Pressure: Greater than ambient pressure Temp: Less than ambient temperature (not cryogenic)
Location: Syngas Unit
Amount: 20000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: 1-PROPENE

CAS #: 115-07-1 EHS: NO

☒ Identical to previous year
☐ Trade Secret
☒ Pure ☐ Mixture ☐ Solid ☒ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

<input type="checkbox"/> Combustible dust	<input type="checkbox"/> Corrosive to metal
<input checked="" type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Flammable
<input type="checkbox"/> Gas under pressure	<input type="checkbox"/> In contact with water emits flammable gas
<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Pyrophoric

Facility Name: LYONDELLBASELL SYNGAS

☐ Self-heating☐ Self-reactive

HEALTH HAZARDS:

- ☐ Acute toxicity (any route of exposure)
- ☐ Carcinogenicity
- ☐ Reproductive toxicity
- ☐ Serious eye damage or eye irritation
- ☐ Skin corrosion or irritation

- ☐ Aspiration hazard
- ☐ Germ cell mutagenicity
- ☐ Respiratory or skin sensitization
- ☒ Simple Asphyxiant
- ☐ Specific target organ toxicity(single or

INVENTORY:

- ☐ Below Reporting Thresholds
- Max Daily Amt code: 07 (25,000 - 49,999 pounds)
- Avg Daily Amt code: 07 (25,000 - 49,999 pounds)
- Avg Max Amt quantity in largest container: 20000 pounds
- No. days on-site: 365

STORAGE LOCATIONS

- ☐ Confidential
- Container Type: Above ground tank
- Pressure: Greater than ambient pressure Temp: Less than ambient temperature (not cryogenic)
- Location: Syngas Unit
- Amount: 48000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: CHLORINE

CAS #: 7782-50-5 EHS: YES

- ☒ Identical to previous year
- ☐ Trade Secret
- ☒ Pure ☐ Mixture ☐ Solid ☒ Liquid ☒ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

- ☐ Combustible dust
- ☐ Explosive
- ☐ Gas under pressure
- ☐ Organic peroxide
- ☐ Pyrophoric gas
- ☐ Self-heating
- ☐ Corrosive to metal
- ☐ Flammable
- ☐ In contact with water emits flammable gas
- ☐ Oxidizer
- ☐ Pyrophoric
- ☐ Self-reactive

HEALTH HAZARDS:

- ☐ Acute toxicity (any route of exposure)
- ☐ Carcinogenicity
- ☐ Reproductive toxicity
- ☒ Serious eye damage or eye irritation
- ☒ Skin corrosion or irritation
- ☐ Aspiration hazard
- ☐ Germ cell mutagenicity
- ☐ Respiratory or skin sensitization
- ☐ Simple Asphyxiant
- ☐ Specific target organ toxicity(single or

INVENTORY:

- ☐ Below Reporting Thresholds
- Max Daily Amt code: 05 (5,000 - 9,999 pounds)
- Avg Daily Amt code: 05 (5,000 - 9,999 pounds)
- Avg Max Amt quantity in largest container: 2000 pounds
- No. days on-site: 365

STORAGE LOCATIONS

- ☐ Confidential
- Container Type: Other

Facility Name: LYONDELLBASELL SYNGAS

Pressure: Greater than ambient pressure Temp: Ambient temperature
Location: Syngas Unit and Water and Waste Treatment (Cooling Tower)
Amount: 4000 pounds

☐ Confidential
Container Type: Other
Pressure: Greater than ambient pressure Temp: Ambient temperature
Location: Water and Waste Treatment
Amount: 6000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: CALCIUM HYDROXIDE
CAS #: 1305-62-0 EHS: NO

☒ Identical to previous year
☐ Trade Secret
☐ Pure ☒ Mixture ☐ Solid ☒ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

<input type="checkbox"/> Combustible dust	<input type="checkbox"/> Corrosive to metal
<input type="checkbox"/> Explosive	<input type="checkbox"/> Flammable
<input type="checkbox"/> Gas under pressure	<input type="checkbox"/> In contact with water emits flammable gas
<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Pyrophoric
<input type="checkbox"/> Self-heating	<input type="checkbox"/> Self-reactive

HEALTH HAZARDS:

<input type="checkbox"/> Acute toxicity (any route of exposure)	<input type="checkbox"/> Aspiration hazard
<input type="checkbox"/> Carcinogenicity	<input type="checkbox"/> Germ cell mutagenicity
<input type="checkbox"/> Reproductive toxicity	<input type="checkbox"/> Respiratory or skin sensitization
<input checked="" type="checkbox"/> Serious eye damage or eye irritation	<input type="checkbox"/> Simple Asphyxiant
<input checked="" type="checkbox"/> Skin corrosion or irritation	<input checked="" type="checkbox"/> Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 10 (100,000 - 499,999 pounds)
Avg Daily Amt code: 10 (100,000 - 499,999 pounds)
Avg Max Amt quantity in largest container: N/A pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Above ground tank
Pressure: Ambient pressure Temp: Ambient temperature
Location: Water and Waste Treatment
Amount: 348000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: METHANOL
CAS #: 67-56-1 EHS: NO

☒ Identical to previous year

Facility Name: LYONDELLBASELL SYNGAS

☐ Trade Secret
☐ Pure ☒ Mixture ☐ Solid ☒ Liquid ☐ Gas

CHEMICAL COMPONENTS:

PHYSICAL HAZARDS:

<input type="checkbox"/> Combustible dust	<input type="checkbox"/> Corrosive to metal
<input checked="" type="checkbox"/> Explosive	<input checked="" type="checkbox"/> Flammable
<input type="checkbox"/> Gas under pressure	<input type="checkbox"/> In contact with water emits flammable gas
<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Pyrophoric
<input type="checkbox"/> Self-heating	<input type="checkbox"/> Self-reactive

HEALTH HAZARDS:

<input type="checkbox"/> Acute toxicity (any route of exposure)	<input type="checkbox"/> Aspiration hazard
<input type="checkbox"/> Carcinogenicity	<input type="checkbox"/> Germ cell mutagenicity
<input checked="" type="checkbox"/> Reproductive toxicity	<input checked="" type="checkbox"/> Respiratory or skin sensitization
<input type="checkbox"/> Serious eye damage or eye irritation	<input checked="" type="checkbox"/> Simple Asphyxiant
<input type="checkbox"/> Skin corrosion or irritation	<input checked="" type="checkbox"/> Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 10 (100,000 - 499,999 pounds)
Avg Daily Amt code: 10 (100,000 - 499,999 pounds)
Avg Max Amt quantity in largest container: 132000 pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Above ground tank
Pressure: Ambient pressure Temp: Ambient temperature
Location: Syngas Unit (Rectisol Area)
Amount: 370000 pounds

☐ Confidential
Container Type: Below ground tank
Pressure: Ambient pressure Temp: Ambient temperature
Location: Syngas Unit
Amount: 13000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: SODIUM HYPOCHLORITE SOLUTION
CAS #: null EHS: NO

☒ Identical to previous year
☐ Trade Secret
☐ Pure ☒ Mixture ☐ Solid ☒ Liquid ☐ Gas

CHEMICAL COMPONENTS:

☐ EHS, CAS: 7681-52-9, Component: HYPOCHLOROUS ACID, SODIUM SALT, 14% Wt, Max Amt Code:
☐ EHS, CAS: 1310-73-2, Component: SODIUM HYDROXIDE, 1% Wt, Max Amt Code:
☐ EHS, CAS: 7732-18-5, Component: WATER, 85% Wt, Max Amt Code:

PHYSICAL HAZARDS:

<input type="checkbox"/> Combustible dust	<input type="checkbox"/> Corrosive to metal
<input type="checkbox"/> Explosive	<input type="checkbox"/> Flammable
<input type="checkbox"/> Gas under pressure	<input type="checkbox"/> In contact with water emits flammable gas
<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Pyrophoric

Facility Name: LYONDELLBASELL SYNGAS

☐ Self-heating☐ Self-reactive**HEALTH HAZARDS:**

- ☐ Acute toxicity (any route of exposure)
- ☐ Carcinogenicity
- ☐ Reproductive toxicity
- ☒ Serious eye damage or eye irritation
- ☒ Skin corrosion or irritation

- ☐ Aspiration hazard
- ☐ Germ cell mutagenicity
- ☐ Respiratory or skin sensitization
- ☐ Simple Asphyxiant
- ☐ Specific target organ toxicity(single or

INVENTORY:

- ☐ Below Reporting Thresholds
- Max Daily Amt code: 04 (1,000 - 4,999 pounds)
- Avg Daily Amt code: 03 (500 - 999 pounds)
- Avg Max Amt quantity in largest container: 1060 pounds
- No. days on-site: 365

STORAGE LOCATIONS

- ☐ Confidential
- Container Type: Other
- Pressure: Ambient pressure Temp: Ambient temperature
- Location: Water and Waste Treatment
- Amount: 1060 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: SODIUM HYDROXIDE (20% and 50%)

CAS #: 1310-73-2 EHS:

- ☒ Identical to previous year
- ☐ Trade Secret
- ☐ Pure ☒ Mixture ☐ Solid ☒ Liquid ☐ Gas

CHEMICAL COMPONENTS:**PHYSICAL HAZARDS:**

- ☐ Combustible dust
- ☐ Explosive
- ☐ Gas under pressure
- ☐ Organic peroxide
- ☐ Pyrophoric gas
- ☐ Self-heating
- ☐ Corrosive to metal
- ☐ Flammable
- ☐ In contact with water emits flammable gas
- ☐ Oxidizer
- ☐ Pyrophoric
- ☐ Self-reactive

HEALTH HAZARDS:

- ☐ Acute toxicity (any route of exposure)
- ☐ Carcinogenicity
- ☐ Reproductive toxicity
- ☒ Serious eye damage or eye irritation
- ☒ Skin corrosion or irritation
- ☐ Aspiration hazard
- ☐ Germ cell mutagenicity
- ☐ Respiratory or skin sensitization
- ☐ Simple Asphyxiant
- ☐ Specific target organ toxicity(single or

INVENTORY:

- ☐ Below Reporting Thresholds
- Max Daily Amt code: 10 (100,000 - 499,999 pounds)
- Avg Daily Amt code: 10 (100,000 - 499,999 pounds)
- Avg Max Amt quantity in largest container: N/A pounds
- No. days on-site: 365

STORAGE LOCATIONS

- ☐ Confidential
- Container Type: Above ground tank

Facility Name: LYONDELLBASELL SYNGAS

Pressure: Ambient pressure Temp: Ambient temperature
Location: Water and Waste Treatment
Amount: 270000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

CHEMICAL NAME: Alcohols (POx and Alt. feeds)

CAS #: 67-63-0 EHS:

☒ Identical to previous year
☐ Trade Secret
☐ Pure ☒ Mixture ☐ Solid ☒ Liquid ☐ Gas

CHEMICAL COMPONENTS:

☐ EHS, CAS: 71-36-3, Component: 1-BUTYL ALCOHOL, 1% Wt, Max Amt Code:
☐ EHS, CAS: 78-92-2, Component: 2-BUTANOL {SEC-BUTYL ALCOHOL}, 1% Wt, Max Amt Code:
☐ EHS, CAS: 67-56-1, Component: METHANOL, 75% Wt, Max Amt Code:

PHYSICAL HAZARDS:

<input type="checkbox"/> Combustible dust	<input type="checkbox"/> Corrosive to metal
<input type="checkbox"/> Explosive	<input type="checkbox"/> Flammable
<input type="checkbox"/> Gas under pressure	<input type="checkbox"/> In contact with water emits flammable gas
<input type="checkbox"/> Organic peroxide	<input type="checkbox"/> Oxidizer
<input type="checkbox"/> Pyrophoric gas	<input type="checkbox"/> Pyrophoric
<input type="checkbox"/> Self-heating	<input type="checkbox"/> Self-reactive

HEALTH HAZARDS:

<input type="checkbox"/> Acute toxicity (any route of exposure)	<input type="checkbox"/> Aspiration hazard
<input type="checkbox"/> Carcinogenicity	<input type="checkbox"/> Germ cell mutagenicity
<input type="checkbox"/> Reproductive toxicity	<input type="checkbox"/> Respiratory or skin sensitization
<input checked="" type="checkbox"/> Serious eye damage or eye irritation	<input type="checkbox"/> Simple Asphyxiant
<input checked="" type="checkbox"/> Skin corrosion or irritation	<input type="checkbox"/> Specific target organ toxicity(single or

INVENTORY:

☐ Below Reporting Thresholds
Max Daily Amt code: 08 (50,000 - 74,999 pounds)
Avg Daily Amt code: 07 (25,000 - 49,999 pounds)
Avg Max Amt quantity in largest container: 35000 pounds
No. days on-site: 365

STORAGE LOCATIONS

☐ Confidential
Container Type: Above ground tank
Pressure: Ambient pressure Temp: Ambient temperature
Location: Syngas Unit
Amount: 75000 pounds

CHEMICALS IN INVENTORY STATE FIELDS:

No additional chemical information is required by Texas

FACILITY STATE FIELDS:

Texas requests the following:

☐ Initial ☐ Updated ☒ Annual

TXT2 Number: 68200

TCEQ Regulated Entity Number (RN): RN100217207

TCEQ Customer Number (CN): CN603674862

During this reporting year, was this facility sold to another company, or did it close operations or discontinue storing reportable quantities of hazardous substances? NO

Facility Name: LYONDELLBASELL SYNGAS

Effective Date:

STATE / LOCAL FEES: \$300

- ☒ I have attached a site plan
☐ I have attached a list of site coordinate abbreviations
☐ I have attached a description of dikes and other safeguard measures

ATTACHMENTS

Tier II Map - LyondellBasell - 24Feb2020.pdf

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 18
and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Samantha Solis, Industrial Hygienist

Name and official title of owner/operator

OR owner/operator's authorized representative

Signature

03/31/2021

Date Signed